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## Trinity College Bulletin, 1967-1968 (Graduate Studies)

Trinity College

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Trinity College Bulletin

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Graduate Studies

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1967-1968

## Calendar

### CHRISTMAS TERM - 1967

Sept. 13, Wednesday	Graduate Advisers' Pre-registration Sessions, 7:00 to 9:30 P.M., Washington Room, Mather Hall
Sept. 14, Thursday	Christmas Term begins
Nov. 23, Thursday	Thanksgiving holiday
Nov. 27, Monday	Classes resume
Dec. 22, Friday*	Christmas Term ends

### TRINITY TERM - 1968

Jan. 15, Monday	Trinity Term begins
March 1, Friday	Final day for submittal of application to receive Master's degree
March 8, Friday	Spring vacation begins
March 15, Friday	Final day for submittal of requests for comprehensive examination
April 1, Monday	Classes resume
May 1, Wednesday	Final day for submittal of theses
May 17, Friday*	Trinity Term ends
June 2, Sunday	One Hundred and Forty-second Commencement

### SUMMER TERM - 1968

June 24, Monday	Summer Term begins
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\*Final examinations in courses requiring them will be administered at the final class meeting of each term.

Applications for Master's degree candidacy are acted upon twice annually: during the first two weeks of November and again during the first two weeks of April.

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*Graduate Studies 1967-1968*



## Faculty and Administration

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GERALD R. MARSHALL, B.A.

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Dean of the College  
Associate Dean of the College  
Assistant Dean of the College  
and Registrar  
Secretary  
Secretary

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ARNOLD L. KERSON, PH.D.  
WALTER J. KLIMCZAK, PH.D.

Lecturer in Mathematics  
Professor of Modern Languages  
Professor of Economics  
Lecturer in Mathematics  
Assistant Professor of English  
Instructor in Mathematics  
Instructor in Philosophy  
Lecturer in Physics  
Associate Professor of English  
Assistant Professor of Government  
Jarvis Professor of Physics  
Northam Professor of History  
Associate Professor of Economics  
Professor of English  
Professor of History  
Assistant Professor of Education  
Professor of History  
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Instructor in Economics  
Librarian  
Instructor in Modern Languages  
Assistant Professor of English  
Associate Professor of Government  
Assistant Professor of Philosophy  
Assistant Professor of Modern Languages  
Seabury Professor of Mathematics  
and Natural Philosophy

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WILLIAM P. WADBROOK, M.A.L.D.	<i>Assistant Professor of Economics</i>
GLENN WEAVER, PH.D.	<i>Associate Professor of History</i>
E. FINLEY WHITTLESEY, PH.D.	<i>Professor of Mathematics</i>
RALPH M. WILLIAMS, PH.D.	<i>Professor of English</i>
GERALD L. WITT, PH.D.	<i>Assistant Professor of Physics</i>



## Graduate Studies at Trinity College

AMONG the many problems facing American education none is more important than the problem of graduate education. Contemporary culture, constantly increasing in complexity, needs a constantly increasing number of individuals whose education has extended beyond the Bachelor's degree. Unfortunately, the proportion of the population free to engage in graduate study to the exclusion of all other activity is likely to increase little if at all. Society's need for individuals with graduate education must be met in other ways.

A partial solution to this need is provision for further scholarly development of talented men and women who because of financial or family or professional obligations cannot expect ever to engage in full-time graduate study. There are many men and women who are willing to devote much of their leisure time to study and whose ability, previous education and experience, and strong professional or personal motivation insure that the quality of their academic performance will be excellent. For such persons Trinity College has since 1927 offered a program of evening graduate study.

Trinity recognizes that neither society nor the individual is served if an advanced degree earned in part-time study represents a smaller achievement in learning than the same degree earned in full-time study. The conditions under which graduate study can be satisfactorily pursued by persons who must be primarily engaged in other activities are not easily supplied. As a result of its considerable experience with part-time graduate study, Trinity has concluded that the following conditions enable graduate students to progress toward a Master's degree which will represent superior accomplishment: *first*, a limited enrollment of students who are capable, mature, highly motivated; *second*, a faculty of scholar-teachers; *third*, courses which meet for the longest possible time consistent with the efficient use of the student's necessarily limited time; *fourth*, small classes

which meet at the College; *fifth*, excellent library facilities; *sixth*, encouragement of independent research; *seventh*, careful counseling of students to undertake in any semester no more courses than they can complete to the best of their ability. Trinity's provision for each of these requisites will be explained in the pages which follow.

Trinity is a liberal arts college. It recognizes that the distinction between professional and non-professional courses at any level is arbitrary and artificial. A freshman course in chemistry is a professional course if the student becomes a chemist, and the Doctor of Philosophy degree is a professional degree for the teacher of history. At the same time the College is convinced that instruction which concentrates on the specific characteristics of a profession does not prepare the student for more than the immediate future or for problems as yet unanticipated. A liberal arts college maintains that personal and professional development will follow graduate study which provides a basic understanding of one or more of the fundamental fields of knowledge. Such understanding then enables the individual to find for himself solutions to problems which face him, now or in the future. This is the point of view of graduate study at Trinity College.

## STUDENTS

Although undergraduate degrees at Trinity are limited to men, graduate study is open to both men and women.

Men and women who hold the Bachelor's degree may enroll in graduate courses for which they are qualified even though they do not matriculate for the Master's degree. Such persons should consult with the Office of Graduate Studies or the appropriate departmental graduate adviser (see center section of this catalogue) before registering. They must provide a transcript of their undergraduate record prior to the end of the fourth week of classes in their first term of attendance.

No student who is employed on a full-time basis, whether or not a candidate for the Master's degree, may in his first term of study at Trinity register for more than one half-year course. In subsequent semesters a limit of two half-year courses is imposed. This rule was established to protect students who might undertake more work than they can accomplish successfully. Students will find that each course requires a large amount of reading at home or in the library, and almost all courses will include the preparation of a term paper or report. The Office of Graduate Studies is empowered to adjust these restrictions for students employed less than full-time.



Undergraduates matriculated for the Bachelor's degree at Trinity who are entering their junior or senior year and whose records have been outstanding will be permitted to enroll in certain graduate-level courses, indicated by an asterisk (\*). To enroll in these courses an eligible student must have the prior approval of his adviser, of the instructor of the course, and of the Office of Graduate Studies. Undergraduates who are admitted to these courses are expected to complete the same requirements that apply for graduate students.

### CANDIDACY FOR THE MASTER'S DEGREE

Trinity grants the Master's degree in chemistry, economics, education, English, French, government, history, Latin literature and classical civilization, mathematics, philosophy, physics, and Spanish. Graduate courses in several of these areas are offered in the Trinity Summer Term as well as the regular college year.

Students who expect to work toward a Master's degree and students who are seriously considering study toward this degree are urged to apply as early as possible for matriculation as candidates for the degree. There are two advantages to application prior to, or soon after beginning, graduate study: 1. if the application is not approved the student will be spared the cost of tuition for courses which will not be credited toward a degree; 2. if the application is approved the student can be properly advised on a program of study. All candidates will be expected to complete a minimum of six half-year courses after admission to candidacy.

Applicants are expected to hold a Bachelor's degree from an accredited college. Recent graduates should have earned an average of B (80) in all undergraduate courses. Less emphasis is placed on the undergraduate standing of applicants whose undergraduate study was completed several years ago, but the professional experience and interests of such applicants will be carefully weighed. All applicants should have a considerable background in the liberal arts and all should have attained facility in the use of English.

Transcripts of all college work must accompany the application form, a copy of which can be obtained from the Office of Graduate studies. In certain cases applicants may also be asked to submit the results of the Graduate Record Examination or other supporting data. An interview at the Office of Graduate Studies or with the appropriate departmental adviser may be required after all materials pertinent to application have been assembled.

Applications which are completed by April 1 will be considered prior to May 1. Applications completed by November 1 will be considered prior to December 1.



## DEGREE REQUIREMENTS

A full-year course, identified by a hyphenated number (651-652 for example), is defined as a unit of study for which six or eight semester hours of credit are awarded. A half-year course, identified by a single number (501 for example), carries three or four semester hours of credit.

To receive the Master's degree the candidate must complete a minimum of ten half-year courses or the equivalent in full and half-year courses at the graduate level with satisfactory grades (*see Graduate Grades*). The candidate must demonstrate proficiency in whatever language, if any, his major department specifies. Under certain conditions as many as two half-year courses (six semester hours) from another graduate school will be credited toward the requirements for the Master's degree at Trinity.

It is implicit in the conferral of any earned degree that study toward that degree has assumed an important position in the student's life. Consistent with this implication is the imposition of a time limit within which the requirements for a degree must be completed. At Trinity College the requirements for the Master's degree must be completed within six years from the beginning of study toward the degree. The time limit will be specified in each letter of approval of candidacy. Students who fail to complete the requirements within the designated time may apply for readmission. This second application must be accompanied by a letter which will include a detailed explanation for the failure to complete the requirements within six years. Readmission will not necessarily be granted and, if granted, will normally include a requirement that no more than half of the credit previously earned be applied toward the Master's degree.

## TRANSFER CREDIT

Under certain conditions Trinity will accept credit up to a maximum of six semester hours (two half-year courses) of graduate work completed at other accredited institutions: grades received in such courses must meet the minimum standard for graduate study at Trinity ("B-" or higher); and such courses must be considered equivalent to Trinity offerings.

Candidates desiring transfer credit should: 1) submit to the Graduate Office in writing a full course description; 2) provide a written request for transfer credit to the Office of Graduate Studies, preferably in advance of actual registration in the course to be transferred; 3) arrange to have an official transcript of their record sent to the Graduate Office.

## THE THESIS AND COMPREHENSIVES

A thesis is required of all candidates in chemistry, economics, English, government, history, and philosophy, and of some candidates in education. Normally, the thesis is the final project undertaken for completion of degree requirements. When a student has chosen a tentative topic or a particular field of study in which he would like to do his thesis research, he is assigned to a thesis adviser by the chairman of his department. (The chairman may, if he deems it necessary, require of the student evidence of his ability to do scholarly writing before assigning him to an adviser or before forwarding notice of the acceptance of the plan and outline of the thesis project.) After the student has met with his adviser and submitted to him a satisfactory plan and outline for his project, the adviser and the department chairman will indicate their approval by signing the Thesis Approval form entitling the student to register with the Graduate Office for course 651-652 of that department. Course credit for the thesis (six semester hours) will be awarded upon its final approval by the adviser and a second reader designated by the chairman of the major department or the Office of Graduate Studies. The thesis, in final form, must be submitted not later than May 1 of the year in which the candidate expects to receive his degree.

A student undertaking to write a thesis should obtain from the Graduate Office a copy of the "Instructions Regarding the Preparation and Submission of Masters' Theses at Trinity College" and should consult his department chairman to learn of the particular procedures which his department requires.

The College and the departments expect that normally a student will complete his thesis in the same year in which he registers for it. A student who fails to complete the thesis within this period (twelve months from the date of registration), and whose time limit for completion of the degree requirements has not yet expired, must register each year until his thesis is completed as a "Visiting Scholar." He shall pay the registration fee and a research fee of \$50 each year.

If the major department specifies that the candidate will take a comprehensive examination in lieu of a thesis the candidate must submit in writing to the Graduate Office by March 15 of the year in which he expects to receive the degree a request for the examination. The examination will be scheduled at the convenience of the department in April or May. Comprehensive examinations are scheduled during the Summer Term in the Department of Classics and in early fall and late spring in the Department of Modern Languages. If the student fails the examination, a second and final examination may be requested for administration not earlier than six months nor later than one year after the initial examination. A grade but no credit is awarded for the comprehensive examination.



By March 1 prior to the Commencement at which the student expects to receive his degree, he must file an application for conferral of the degree. A form for this purpose will be provided by the Graduate Office on request.

## SIXTH YEAR FOR TEACHERS

Programs of study fitted to individual needs are available to teachers who have earned the Bachelor's and Master's degrees. Each program will be planned in conference by the graduate student and the Office of Graduate Studies, and certification of satisfactory performance will be furnished at the conclusion of study to whatever authorities the student designates.

## GRADUATE GRADES

At the conclusion of each course and comprehensive examination each graduate student will receive a grade from this scale:

*Distinction – High Pass – Pass – Low Pass – Failure*

Theses will be graded with one of the following:

*Honors – Pass – Fail*

Although equivalence of grades between graduate and undergraduate courses is difficult to define, it is generally agreed among colleges that graduate students will be expected to attain a higher level of achievement than would be expected of undergraduates. Frequently this expectation is expressed in a requirement that graduate credit will be awarded only for courses in which a grade of B or higher is earned. The Faculty of Trinity College regards two passing grades (A and B, for example) as inadequate differentiation of the quality of acceptable achievement for graduate students. Therefore, the restricted range of achievement for which graduate credit is awarded has been divided into three. It should be understood that the grades of Distinction, High Pass, and Pass are NOT equivalent to A, B, and C, but represent a finer division of the A and B range.

Whenever a candidate for the Master's degree has received a total of two grades of Low Pass and/or Failure in his major field of study, or three such grades regardless of field, his eligibility for further study will be terminated. No more than one grade of Low Pass will be credited toward the requirements for the Master's degree.

Graduate students who are not approved candidates for the Master's degree, will be ineligible for candidacy for the Master's degree if they receive two grades lower than Pass regardless of field.

### NON-CREDIT ATTENDANCE

Persons who do not wish to receive credit for specific courses may, with permission of the Office of Graduate Studies, register as auditors. They will receive no credit and no grade, but a record of their attendance will be made. They need not always fulfill the prerequisites of the course and are not required to take examinations. The charge will be the same as if the course were taken for credit.

Graduate students who have been accepted as candidates for the Master's degree at Trinity College and who have completed or are currently enrolled in two half-year courses at the graduate level will be allowed to audit without charge a total of two half-year courses. This privilege is without time limit; the courses may be audited prior to or after the completion of the degree requirements. In each case, however, permission to take a "Graduate Audit" must be obtained from the Office of Graduate Studies.

### WITHDRAWAL

Registration for a course is a commitment to complete the course. Request for withdrawal and reasons for the request must be included in a letter addressed to the Office of Graduate Studies. Withdrawal is not accomplished by failure to attend classes or by notification to the instructor. Students contemplating withdrawal should, if possible, continue their attendance until a reply to their request is received. Unauthorized withdrawal will result in a grade of failure in the course.

No graduate student will be permitted to withdraw from a course after the twelfth week of that course.

### COSTS

Tuition charges are determined on the basis of the number of full-year courses and half-year courses for which the student enrolls. Graduate students should note the statement pertaining to them under the heading, *Non-Credit Attendance*.

### TUITION CHARGES

	<i>Half-year Course</i>	<i>Full-year Course</i>
Graduate Students	\$120	\$240
Undergraduate Students	\$150	\$300

In addition to tuition charges each student must pay a registration fee of five dollars per term. This fee is not refundable. Full payment of all costs must accompany registration for each semester.



Only in cases of withdrawal made necessary by such unexpected causes as sickness or call to military service will refunds of tuition be made. Such refunds will be made in accordance with this schedule: three-fourths tuition for withdrawal during the first and second week of classes; one-half during the third week; no refund in any case after that.

### ***Financial Assistance***

Graduate students seeking financial assistance should direct all inquiries to the Office of Graduate Studies and make formal application for fellowships or loans on the appropriate forms issued by that office.

Financial assistance is available only to those graduate students who are approved candidates for the Master's degree and is usually granted to those students who have completed a minimum of two half-year courses at Trinity. Preference is given to secondary school teachers and financial need is one of the factors considered.

### ***Trinity Graduate Fellowships***

A limited number of fellowships entitling recipients to exemption of part of tuition costs is available.

### ***Mitchell B. Stock Fellowship***

This fellowship is awarded annually to a secondary school teacher who has shown unusual academic promise in pursuit of the Master's degree at Trinity.

### ***Guaranteed Insured Loan Program***

Attention is called to the existence of various state educational loan plans established under the Higher Education Act of 1965. For residents of Connecticut, loans up to \$1,500 per year are available for graduate study. The United States Government will subsidize the interest payments if the adjusted family income is \$15,000 or less and the student is enrolled on at least a "half-time basis." Information on state loan programs is available from the Director of Financial Aid at Trinity.



## VETERANS

Students admitted to Trinity who intend to study under Public Law 89-358 should, upon admission to Trinity, communicate with their local Veterans' Administration Office, requesting an application for a program of education under this law.

## THE TRINITY COLLEGE LIBRARY

Graduate study is possible only where there is a fine library. Trinity's collection of more than 460,000 volumes and 100,000 pamphlets, housed in a modern structure embodying the latest in library construction theory and method, provides exceptional opportunities for graduate study. The library adds approximately 7,000 volumes per year and subscribes to over 1,000 periodicals.

Seminar classes often meet in the library's seminar rooms, close by the volumes they utilize. The Reference Librarian provides assistance in the use of the library in connection with term papers and theses.

## PLACEMENT OFFICE

Graduate students may make use of the Placement Office for information about careers. During the regular academic year this office arranges to have representatives from graduate schools, business, and industry visit the College. The Director of Placement also serves as liaison for bursary employment and for part-time, off-campus employment.

## REGULATIONS

**Absences.** Students are expected to attend all class meetings; they are not "entitled" to any absences. Excessive absences will be sufficient cause for required withdrawal. An absence from an announced examination may be excused only for sickness certified by a doctor or emergencies by the Office of Graduate Studies.

**Parking.** Students attending classes meeting in Williams Memorial, Seabury Hall, or Goodwin must park in the lots adjacent to either Jarvis Hall or the Chapel. Those with classes meeting in the Library or McCook Center must park in either the lot next to the Field House or on Broad Street. Students who park on Summit Street do so at their own risk.

**Inclement Weather.** It is always a problem to notify students that a class will or will not meet during inclement weather. During the 1967-68 academic year this

procedure will be followed: Each instructor will use his discretion regarding the meeting of his class when poor weather conditions prevail or are predicted. He will provide the members of his class with a telephone number at which he can be reached between five and six P.M. prior to the scheduled meeting of the class at seven P.M. to convey his decision. For this information students should NOT call the college switchboard or the Graduate Office.

## **HOURS**

### ***Classes***

Unless otherwise noted in the description, each course will meet once each week and carry three semester hours of credit.

Classes which meet during the week, Monday through Thursday, will be held in the evening from 7:00 to 10:00 P.M., or from 5:00 to 6:15 P.M., 7:00 to 8:15 P.M., or 8:30 to 9:15 P.M. if scheduled for two meetings per week.

### ***Trinity College Library***

Monday through Thursday, 8:30 A.M. to 11:00 P.M.

Friday, 8:30 A.M. to 10:00 P.M.

Saturday, 8:30 A.M. to 5:00 P.M.

Sunday, 2:00 P.M. to 10:00 P.M.

During vacation periods the library will post a special schedule of hours.

### ***Mather Hall***

Bookstore – 6:30 P.M. to 7:30 P.M. Monday through Thursday the first week of each term only. Regular hours daily from 9:00 A.M. to 4:00 P.M. and Saturdays, 9:00 A.M. to noon.

Cave – Monday through Friday, 7:30 A.M. to 11:30 P.M.

Saturday – 7:30 A.M. to 10:00 P.M.

Sunday – 10:00 A.M. to 8:00 P.M.

Lounges – Daily, 7:00 A.M. to 1:00 A.M.

### ***McCook Library***

Open specifically for graduate students Monday through Thursday evenings from 6:00 P.M. to 10:00 P.M.

### ***Austin Arts Center***

Monday through Friday, 9:00 A.M. to 11:00 P.M.

Saturday – 1:00 P.M. to 5:00 P.M.

Sunday – 1:00 P.M. to 5:00 P.M. and 7:00 P.M. to 11:00 P.M.



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### REGISTRATION

#### *Christmas Term*

Registration by mail opens August 1.

Students may also register in person at the Graduate Office daily except Saturday from 9:00 A.M. to 12:00 noon and from 1:00 P.M. to 5:00 P.M.

Students wishing to meet with advisers September 13 may register following their consultation (see reverse side of registration cards).

For courses which have not reached their limit of enrollment, registration will be accepted as late as the end of the first week of classes. In addition to the regular daily hours the Graduate Office will be open from 6:30 to 8:30 P.M., Monday through Thursday, of the first week of classes.

Full payment of tuition and registration fee must accompany each registration – including vouchers issued by employers.

#### *Trinity Term*

Registration by mail opens December 1.

Students may also register in person at the Graduate Office daily except Saturday from 9:00 A.M. to 12:00 noon and from 1:00 P.M. to 5:00 P.M.

There will be no adviser session prior to the Trinity Term. Students should consult with their advisers during the preceding term.

For courses which have not reached their limit of enrollment registration will be accepted as late as the end of the first week of classes. In addition to the regular daily hours the Graduate Office will be open from 6:30 P.M., Monday through Thursday, of the first week of classes.

Full payment of tuition and registration fee must accompany each registration – including vouchers issued by employers.

Students are urged to register early as enrollment in most courses is limited. Students are registered in courses in the order in which registrations are received. Approved Master's degree candidates will be given preference on enrollment in graduate courses.

## Courses of Instruction

*Christmas Term — September to December*

*Trinity Term — January to May*

### CHEMISTRY

*Chairman and Graduate Adviser:*

PROFESSOR ROBERT H. SMELLIE

A two-year, full-time program in chemistry leading to the Master of Science degree is offered by Trinity College. It involves course work and an advanced research project leading to a thesis of a character suitable for publication. A reading knowledge of German is required for the Master of Science degree. The Department has a limited number of graduate assistantships open to Master's degree candidates.

Graduation from an accredited college with a major in chemistry is required for admission to this program. Courses taken must include at least one year of general chemistry (with qualitative analysis included as a separate course) and one year each of quantitative analysis, organic, and physical chemistry. Two years each of college mathematics (calculus) and college physics are also required.

Students interested in this program should consult the chairman of the Chemistry Department.

There are no evening graduate courses in chemistry.

### ECONOMICS

*Chairman:* PROFESSOR RICHARD SCHEUCH

*Graduate Adviser:* PROFESSOR RANDALL W. TUCKER

The Master of Arts program in economics is designed for two categories of students. For men and women in business, education, and government who view the Master's degree as a terminal degree, the program seeks to provide a comprehensive and well-grounded acquaintance with contemporary economic problems and



a basic familiarity with and command of the tools of modern economic analysis. For those students who may be planning to pursue further advanced study possibly leading to the doctorate, Trinity's program in economics offers a solid training in the basic disciplines of the science, notably in theory, statistics, and economic history.

Although Trinity offers no degree in business administration, persons in banking and finance, junior business executives, government employees, teachers of economics, and others in the business world will find the background and training that is offered in graduate study in economics professionally valuable.

It is desirable that students who contemplate studying for a Master's degree in economics have an undergraduate background in economics. In some cases, however, students who have compiled an outstanding undergraduate record but have taken little economics in their undergraduate program have with serious effort made a satisfactory record in their graduate economics program.

All persons who desire to major in economics, or who merely desire to register in Economics 501, must demonstrate a competence to undertake study at this level by passing a qualifying examination. Those who achieve a grade of Distinction in this examination will be exempted from taking Economics 501. It is recommended that such persons enroll in Economics 504. Those who are not qualified to enroll in Economics 501 should enroll in Economics 500, which is designed for students who need to refresh their understanding of basic economics or who have had little or no undergraduate training in economics.

Economics 501 is a prerequisite to all other courses in the Department except Economics 561: *Statistics for Economics* and Economics 572: *Managerial Accounting*. Students with a strong background in economics may, with approval of the Department, substitute for two of the required ten half-year courses in economics two half-year courses in a related field. Every Master's candidate must include among his ten half-year courses Economics 651-652: *Thesis*.

### *Courses in the Economics Program*

- |   |                                      |
|---|--------------------------------------|
| 500. Economic Principles and Problems             | 542. Fiscal Policy                   |
| 501. Price Theory                                 | 551. International Economics         |
| 504. Mathematical Economics                       | 552. International Economic Problems |
| 511. Money and Banking                            | 561. Statistics for Economics        |
| 512. National Income Analysis and Business Cycles | 572. Managerial Accounting           |
| 521. Economic History of Western Europe           | 575. Comparative Economic Systems    |
| 522. Economic History of the United States        | 581. Government and Industry         |
| 531. Labor Economics                              | 585. Corporation Finance             |
| 532. Union-Management Relations                   | 591-592. History of Economic Thought |
| 541. Public Finance                               | 651-652. Thesis                      |



## ***Christmas Term – September to December***

**ECONOMICS 500. Economic Principles and Problems – Tuesday.** The study of some basic economic principles pertaining to the operation of the pricing system, income distribution, national income analysis, monetary and fiscal policy, and international trade. Using these principles an inquiry will be made into the government's role in the economy, the problems of industrial combinations, the question of agricultural surpluses, and the function of labor unions in the economy.

This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree in economics. It is designed for those who have not previously studied economics and for those who wish to refresh their understanding of basic economics.

Williams 301 – Mr. Egan.

**ECONOMICS 501. Price Theory – Monday.** A basic course in microanalysis. Intensive study of the price system and resource allocation including the theory of demand; production and cost analysis; the pricing policies of business firms under various market structures. Specific reference will be made to decision-making in selected industries in the United States. The purpose of the course, required of all students majoring in economics, is to provide rigorous training in fundamental analytical techniques. This requirement will be waived for students with strong preparation in economics who pass a qualifying examination.

All students wishing to enroll in Economics 501 must demonstrate a competence to undertake study in economics at the graduate level by passing a qualifying examination. Those who achieve a grade of Distinction on this test will be exempted from Economics 501. Those not qualified to enroll in Economics 501 should enroll in Eco-

nomics 500. The qualifying test will be administered Saturday morning, September 9, at 9 o'clock in Room 301, Williams Memorial. Students who wish to be admitted to the test should notify the Office of Graduate Studies, in writing, no later than September 9 of their intention to take the test.

Williams 301 – Mr. Wadbrook.

**ECONOMICS 521. Economic History of Western Europe – Thursday.** A study of significant phases of the economic development of Western Europe from 1500 to the present. Emphasis will be placed on Great Britain's rise to industrial predominance. Special attention will be directed to the role of private investment and public policy, land ownership and agriculture, international trade, technological innovation, business organization and the entrepreneur, against the background of population changes, trade cycles, and economic growth patterns.

McCook 213 – Mr. Battis.

**ECONOMICS 581. Government and Industry – Wednesday.** An examination of the role of government regulation in a free enterprise system. The general criteria for public policy regarding resource allocation and income distribution are developed, and a critical evaluation of anti-trust, public utility, agricultural, and other policies relating to industrial organization is undertaken.

Williams 301 – Mr. Curran.

**ECONOMICS 651-652. Thesis.** – Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.

Mr. Scheuch and Staff.

### Trinity Term – January to May

**ECONOMICS 501(2). Price Theory – Tuesday.** A basic course in microanalysis. Intensive study of the price system and resource allocation including the theory of demand; production and cost analysis; the pricing policies of business firms under various market structures. Specific reference will be made to decision-making in selected industries in the United States. The purpose of the course, required of all students majoring in economics, is to provide rigorous training in fundamental analytical techniques.

All students wishing to enroll in Economics 501 must demonstrate a competence to undertake study in economics at the graduate level by passing a qualifying examination. Those who achieve a grade of Distinction on this test will be exempted from Economics 501. Those not qualified to enroll in Economics 501 should enroll in Economics 500. The qualifying test will be administered on an individual basis in January. Students who wish to be admitted to the test should notify the Office of Graduate Studies, in writing, of their intention to take the test.

McCook 225 – Mr. Egan.

**ECONOMICS 541. Public Finance. – Tuesday.** Role and functions of the state. Financial needs and resources. A survey of the growth in the functions of the public sector. Study of the basic theoretical issues of public finance and the application of economic analysis in determining the economic effects of government fiscal policies. Particular attention is given to an analysis of various taxes and subsidies and their effects upon resource allocation and income distribution.

Williams 301 – Mr. Dunn.

**ECONOMICS 554. Economic Development – Monday.** An intensive study of the

theory and problems of economic development of less developed countries. The theoretical part of the course will include an examination of the role of capital formation, foreign aid, international trade, skilled labor, and entrepreneurship in economic development. The discussion of the factors inhibiting economic development at present will direct attention to inflation, unemployment and low productivity in the agricultural sector, the existence of economic dualism, and fluctuation and shortages of foreign exchange receipts. The last part of the course will be devoted to an evaluation of the function of government in the economics of backward countries and an assessment of the techniques of government planning and strategies for economic development. Prerequisite: Economics 501 or the equivalent.

Williams 301 – Mr. Wadbrook.

**ECONOMICS 561. Statistics for Economics – Thursday.** Nature and importance of statistics; collection and sources of data; tabular and graphic presentation of data; ratios; fundamentals of index number construction; the frequency distribution; measure of central tendency and of variability; theory of the normal curve; sampling theory; time series analysis, including some reference to the work of the National Bureau of Economic Research; simple linear correlation; contemporary developments in statistical theory. A course designed for those who have had no previous work in statistics.

Williams 301 – Mr. Tucker.

**ECONOMICS 651-652. Thesis. – Conference hours by appointment.** Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.

Mr. Scheuch and Staff.



## EDUCATION

### *Chairman and Graduate Adviser:*

PROFESSOR ALEXANDER A. MACKIMMIE, JR.

Graduate study in education is broadly conceived by the Department as providing course offerings of value and interest for (a) elementary and secondary school teachers in service, (b) prospective secondary school teachers, (c) individuals in other occupations whose work is educational in character, and (d) those persons, not professionally concerned with education, who desire to achieve a better understanding of the problems currently facing public and independent schools.

The Department has held the number of highly specialized courses to a minimum. It believes that an understanding of the history, philosophy, and psychology of education is fundamental to the formulation of sound judgments on the specific issues in education today. Many of the courses are pertinent to education at all levels of instruction in both public and independent schools. In addition, the Department recommends that the student give consideration to the course offerings of the other departments, many of which are of interest to students majoring in education.

Candidates for the Master of Arts degree with a major in education must complete at least five half-year courses within the Department. The candidate will be advised to select the remainder of the degree program from courses which will serve the best interests of the individual, provided the courses selected meet with the prior approval of the Department. Either a thesis (Education 651-652) or its equivalent in course credits plus a Comprehensive Examination is required for the degree. All candidates are also required to take Education 600: *Problems in Education*.

Trinity is approved for the preparation of teachers of academic subjects in public junior and senior high schools in Connecticut. The certification program will also meet the requirements of most other states. Students desiring to prepare for secondary certification must be approved as candidates for the Master's degree (in education or another subject). Those interested should consult the Department concerning the details of the state requirements.

Teachers accepted for a planned course of study leading to certification under the provisions of the State Department of Education's special Temporary Emergency Permit program are required to enroll in Education 491-492: *Student Teaching*. Students in this category will be involved in all the basic activities and phases of the practice teaching experience, including supervision by the Department of Education staff members and attendance at the seminar sessions. However, because

they are not taking over the classes of a faculty member of the school in which they are serving, ordinarily the students will not be under the direction of a critic teacher. Graduate credit is not given for Education 491-492.

### *Courses in the Education Program*

Courses in education are available in both the summer and winter terms. To enable candidates studying in the summers only to complete the requirements for the Master's degree in a minimum of three summers, courses will be available on an alternating basis. The complete list of courses is as follows:

- |                                      |   |
|--------------------------------------|---|
| 501. History of Education            | 541. Educational Measurement and Evaluation |
| 502. Philosophies of Education       | 543. Principles of Guidance                 |
| 503. Developmental Psychology        | 570. School Law                             |
| 504. Differential Psychology         | 600. Problems in Education                  |
| 507. School and Society              | 601. Seminar: Research in Education         |
| 521. Secondary School Teaching       | 602. Seminar: Various Topics                |
| 522. Secondary School Administration | 651-652. Thesis                             |
| 524. Secondary School Curriculum     |   |

### *Christmas Term – September to December*

**EDUCATION 491-492. Student Teaching.** May not be taken for graduate credit. Six semester hours of undergraduate credit. A laboratory course of supervised observation and teaching experience in cooperating secondary schools in the Capital Area. The course also includes a series of seminar sessions. The student should be able to spend a full day at the secondary school for a period of at least nine weeks and must ordinarily observe or teach approximately 140 school periods. Prerequisites: approval as a candidate for the Master's degree and completion of six semester hours of study in education at Trinity College. Enrollment is limited and permission of the instructor is required. Additional fee: ten dollars.

Mr. Mackimmie and Staff.

\***EDUCATION 501. History of Education – Tuesday.** A study of the basic ideas, institutions, and practices of contemporary edu-

cation in the light of their historical development from the earliest times to the present. The student will be required to read selected primary sources – chiefly from the classics of educational literature – in order to assist him in interpreting and reconstructing the history of educational thought.

McCook 225 – Mr. Morris.

\***EDUCATION 503. Developmental Psychology – Monday.** A study of human behavior in terms of process, with an examination of representative theories of development as to both their underlying assumptions and their implications for educational practice. Attention will be centered on normal human development throughout the life span, and physical, mental, and emotional growth will be treated as parts of total maturational patterns.

McCook 225 – Mr. Decker.



**\*EDUCATION 521. Secondary School Teaching – Wednesday.** A study of secondary education in America, with emphasis upon current aims, curriculum patterns, and teaching methods and materials. Each student will be encouraged to pursue particular interests within his areas of academic specialization; for the student preparing to teach, course requirements will be pointed toward his professional practice.

McCook 225 – Mr. Mackimmie.

**EDUCATION 601. Seminar: Research in Education – Wednesday.** This course is designed primarily for those who plan to write a thesis in education in partial fulfillment of the requirements for the Master's degree. A study of the historical, philosophical, and statistical methods, including the collection and organization of data appropriate to research in education. Prerequisite: Permission of the instructor.

McCook 204 – Mr. Decker.

**EDUCATION 602A. Seminar: Comparative Education – Thursday.** A comparative

study of the structure, aims, and function of contemporary systems of education, including an analysis of the historical and socio-cultural factors leading to their present forms. Certain representative systems will be emphasized, specifically: England, France, Germany, Italy, Russia, India, and Japan. The educational problems facing other nations of the world will be stressed for comparative purposes. Attention will be given throughout to the methodology employed by scholars in the field. Prerequisite: 501, *History of Education*, or permission of the instructor.

McCook 225 – Mr. Morris.

**EDUCATION 651–652. Thesis – Conference hours by appointment.** Six semester hours. The preparation of a comprehensive paper representing an original solution to a clearly-defined, significant educational problem. Prerequisite: Education 601: *Research in Education*. See *Degree Requirements*.

Mr. Mackimmie and Staff.

### *Trinity Term – January to May*

**EDUCATION 491–492. Student Teaching.** May not be taken for graduate credit. Six semester hours of undergraduate credit. A laboratory course of supervised observation and teaching experience in cooperating secondary schools in the Capital Area. The course also includes a series of seminar sessions. The student should be able to spend a full day at the secondary school for a period of at least nine weeks and must ordinarily observe or teach approximately 140 school periods. Prerequisites: approval as a candidate for the Master's degree and completion of six semester hours of study in education at Trinity College. Enrollment is limited and permission of the instructor is required. Additional fee: ten dollars.

Mr. Mackimmie and Staff.

**\*EDUCATION 502. Philosophies of Education – Tuesday.** An advanced course that will treat systematically and historically of the vital issues that are involved in any general theory of education. Major philosophies of education will be studied comparatively by student participation on panels reviewing each of the principal positions: neo-scholasticism, rational humanism, idealism, naturalistic realism, experimentalism, and existentialism. Toward the end of the course the student will be requested to construct for himself a philosophy of education adequate for the evaluation of his subsequent professional practice.

McCook 213 – Mr. Morris.



## 22 / Courses of Instruction

**\*EDUCATION 504. Differential Psychology** – *Monday*. A study of quantitative data concerning individual, group, and trait differences, and the validity and reliability of those measuring instruments through which the data are secured.

McCook 213 – Mr. Decker.

**EDUCATION 522. Secondary School Organization and Administration** – *Monday*. A study of principles underlying current school practices in organization and administration and an identification of persistent problems, particularly as they involve the teacher and the pupil.

McCook 204 – Mr. Mackimmie.

**EDUCATION 543. Principles of Guidance** – *Wednesday*. A broad inquiry into the meaning, purpose, and scope of guidance, particularly as it finds expression in schools and other community agencies. Attention will be given to teacher counseling in the classroom, to significant interdisciplinary and inter-agency problems, and to professional issues in contemporary guidance practice.

McCook 213 – Mr. Decker.

**EDUCATION 600. Problems in Education** – *Wednesday*. A study, through reading and discussion, of selected contemporary issues and problems in education. These

areas will be studied in terms of the historical, philosophical, or sociological principles involved in their analysis and understanding and will be traced through all levels of the educational system. When possible, specialists from the major fields under consideration will participate in the discussions. This course is required for Masters' candidates.

McCook 204 – Mr. Mackimmie.

**EDUCATION 602B. Seminar: Cultural Anthropology** – *Thursday*. An analysis of the latest anthropological theories on the nature, properties, patterns, and processes of culture, and the extent to which these theories explain the data furnished by the descriptive work of such noted anthropologists as Mead, Benedict, Malinowski, Redfield, and others. The course will also consider the sociological approach to both history and culture found in the systems of men from Vico to Sorokin, with emphasis upon the contribution of these systems to anthropology.

McCook 204 – Mr. Morris.

**EDUCATION 651-652. Thesis** – Conference hours by appointment. Six semester hours. The preparation of a comprehensive paper representing an original solution to a clearly-defined, significant educational problem. Prerequisite: Education 601: *Research in Education*. See *Degree Requirements*.

Mr. Mackimmie and Staff.

## ENGLISH

*Chairman and Graduate Adviser:*

PROFESSOR J. BARD McNULTY

Graduate courses in English at Trinity are designed for persons with a solid background of study in English who have a professional or personal interest in pursuing advanced work under guidance, probably proceeding to the M.A. degree and be-

yond. Although the majority of students are usually teachers of English in secondary schools, the program welcomes all interested and qualified persons no matter what their occupations. Each course emphasizes depth of subject matter, accuracy of scholarly research, and range of critical understanding.

A student is expected to have completed an undergraduate major in English, or its equivalent in English courses, to the extent of 24 hours or credits exclusive of freshman English, speech, or journalism. Students applying for candidacy for the degree of Master of Arts with a major in English should meet the above requirements with a grade average of at least B or 80. Also, all students beginning graduate courses in English at Trinity for the first time, regardless of whether or not they intend to apply eventually for degree candidacy, must have their academic credentials reviewed by the Graduate Office prior to registration; an average of at least B is usually required. Candidates for degrees in other fields who have had 15 hours of English may be admitted to English courses by permission of the Chairman.

There is no prescribed curriculum for the Master's degree. Each student's program of study is determined individually. In many cases the most logical program consists of those courses which treat periods or subjects omitted in the student's undergraduate preparation, or those which have some bearing on his professional interests. Students whose profession is teaching English should elect the courses in linguistics, advanced composition, and literary criticism.

Candidates are required to take a total of ten half-year courses, of which eight must be in the Department, including English 651-652: *Thesis*. Outside the Department, candidates may take any graduate course in history, linguistics, philosophy, religion, and ancient or modern foreign language or literature.

### *Summer Program in English*

The program for subsequent summer terms will usually include the following course areas:

#### *Every summer*

- |                         |                       |
|-------------------------|-----------------------|
| 1. Linguistics          | 3. Literary Criticism |
| 2. Advanced Composition | 4. Thesis             |



## 24 / Courses of Instruction

1968

Genre: Fiction  
Genre: Epic  
Period: Medieval  
Period: Neo-Classical  
Period: Modern  
Period: American  
Writer: Milton

1969

Genre: Drama  
Genre: Poetry  
Period: Renaissance  
Period: 19th Century  
Period: Modern  
Period: American  
Writer: Modern

1970

Genre: Poetry  
Genre: Drama  
Genre: Satire  
Period: Renaissance  
Period: Modern  
Period: American  
Writer: Shakespeare

### *Courses in the English Program*

501. Advanced Literary Writing  
553. Studies in Chaucer  
557. Studies in the Renaissance  
558. Milton  
559. Studies in Neo-Classicism  
561. Studies in Romanticism  
562. Studies in Victorian Literature  
563. Studies in Contemporary Literature  
571. Studies in Drama

573, 574. Studies in Fiction  
575, 576. Studies in American Literature  
577. Studies in Poetry  
579. Studies in Criticism  
581. Shakespeare  
591. Studies in Ideas  
593. Studies in English Language and Linguistics  
651-652. Thesis

### *Christmas Term – September to December*

**ENGLISH 501.** Advanced Expository Writing – *Tuesday*. The study and practice of expository writing in its several forms, together with advanced study of language, rhetoric, logic, and expression. For elementary and secondary school teachers and others.

Seabury 16 – Mr. Risdon.

**ENGLISH 561.** Studies in Romanticism: Blake – *Monday*. Studies in Romantic epistemology, including readings in William Blake, Yeats, and Joyce, and selected critical studies focusing on Romantic theories of perception and artistic creation.

McCook 213 – Mr. Gardner.

**ENGLISH 575.** Studies in American Literature: Masterpieces of the American Renaissance – *Thursday*. Critical appraisal of the key works of Hawthorne, Melville, Whitman, Emerson, Thoreau, and Dickinson

through lectures, reports, and a research paper. Mid-19th-century literary, philosophical, and historical backgrounds.

Seabury 16 – Mr. Cameron.

**ENGLISH 593.** Studies in English Language and Linguistics – *Wednesday*. An introduction to general linguistics, including brief overviews of various theories of language such as the immediate constituent, transformational, tagmemic, and stratificational. Emphasis will be on the application of this material to the study and teaching of the English language and literature.

Seabury 16 – Mr. Williams.

**ENGLISH 651-652.** Thesis – Conference hours by appointment. Six semester hours. A project involving scholarly research, critical thinking, and formal writing. Proposals for theses must be submitted by October 1 for assignment of an adviser. The course must



be completed during the academic year in which it is begun. See *Degree Requirements*

and separate English Department statement.  
Mr. McNulty and Staff.

### *Trinity Term – January to May*

**ENGLISH 563 (2).** *Studies in Contemporary Literature: Eliot – Thursday.* His poetry, drama, criticism, and significance studied within the aesthetic, religious, and historical framework of the 20th-century Wasteland.

Seabury 16 – Mr. Cameron.

**\*ENGLISH 571 (2).** *Studies in Drama: Modern Drama – Wednesday.* Reading and analytical discussion of plays illustrating the development of the principal technical, generic, and modal tendencies in the drama since the middle of the Nineteenth Century.

Seabury 16 – Mr. Potter.

**\*ENGLISH 579 (2).** *Studies in Literary Criticism – Tuesday.* A general view of the scope, theory, principles, and practice of literary criticism, including a consideration of intrinsic and extrinsic approaches and a study of the specific techniques of formalist, biographical, psychological, sociological, ideological, and mythological criticism.

Seabury 16 – Mr. Benton.

**ENGLISH 591 (2) A.** *Studies in Ideas: Satire – Monday.* An examination of the nature of satire in reference to other literary modes, particularly comedy. The course will trace the development of satire from classical times to the present, with particular

reference to the writers of Greece, Rome, England, France, Spain, and Italy. Some of the authors to be studied as satirists are Aristophanes, Horace, Juvenal, Chaucer, Cervantes, Dryden, Pope, Swift, Voltaire, Molière, Pulci, Byron, and Shaw. One of the written assignments of the course will be the composition of an original satire.

Seabury 9 – Mr. Dando.

**ENGLISH 591 (2) B.** *Studies in Ideas: The Study of English – Wednesday.* A seminar in some of the theoretical systems of linguistics, rhetoric, and criticism (e. g., Noam Chomsky, Kenneth Burke, and Northrop Frye) and their implications for teaching methods, course structure, and curricular theory. Restricted to teachers or prospective teachers of English; some previous work in linguistics is recommended.

Goodwin Lounge – Mr. P. Smith.

**ENGLISH 651–652.** *Thesis – Conference* hours by appointment. Six semester hours. A project involving scholarly research, critical thinking, and formal writing. Proposals for theses must be submitted by October 1 for assignment of an adviser. The course must be completed during the academic year in which it is begun. See *Degree Requirements* and separate English Department statement.

Mr. McNulty and Staff.

## **GOVERNMENT**

*Chairman:* PROFESSOR MURRAY S. STEDMAN, JR.

*Graduate Adviser:* PROFESSOR REX C. NEAVERSON

The program leading to a Master of Arts degree in Government has been designed to meet the needs both of persons with a general interest in political science and also of persons currently engaged in public service. Over the years the program has therefore attracted candidates from such fields as education, law, religion, and

the civil service. Candidates for the degree should normally hold a bachelor's degree in one of the social sciences or in history. However, a candidate who majored in another area as an undergraduate may be considered. The Department passes upon the eligibility of all applicants.

Candidates for the Master of Arts degree in government are required to complete a total of ten half-year courses, of which eight must be in the Department, including Government 651-652 *Thesis*. Courses taken in related areas, normally history, economics, or philosophy, must be approved by the Department Chairman or Graduate Adviser.

New students ordinarily are required to take Government 501: *Introduction to Political Science* as the first course in their program of study. This course is offered in the Christmas Term each year. Those who enter as students in the Trinity Term will be permitted to start their study with another government course provided they have the approval of the Department Chairman or Graduate Adviser and provided also that they take Government 501 as the second course in their program.

New students will be formally accepted as candidates for the Master's degree after satisfactory completion of Government 501 or its equivalent, subject to the approval of the Department Chairman or Graduate Adviser.

Students who have an adequate undergraduate background in government or who have other satisfactory qualifications may ask permission to omit Government 501.

Students who do not intend to become candidates for the Master's degree in government but who wish to take courses offered by the Department may do so without completing Government 501 provided they have the permission and approval of the Department Chairman or Graduate Adviser.

Degree candidates should inform the Graduate Adviser in writing of the probable area of thesis topic not later than upon completion of their third course in the Department.

### *Courses in the Government Program*

- |   |   |
|---|---|
| 501. Introduction to Political Science    | 517. Government and Politics of Latin America |
| 502. American National Government         | 521. International Politics                   |
| 504. American Political Thought           | 522. International Law                        |
| 508. Totalitarian Government and Politics | 523. International Organization               |
| 509. Congress and the Legislative Process | 532. Comparative Politics                     |
| 511. Public Administration                | 533. Political Ideology                       |
| 512. Metropolitan Government              | 580. Government and Politics of Asia          |
| 513. American Political Parties           | 621. Independent Study                        |
| 514. American Constitutional Law          | 651-652. Thesis                               |
| 515. American Foreign Policy              |   |



### ***Christmas Term – September to December***

**GOVERNMENT 501. Introduction to Political Science – Tuesday.** A general introduction to the study of political science, its scope and methods. The course will be organized as follows: 1. The history and development of western political theory and its influence on the growth of constitutional government; 2. The impact of the French and industrial revolutions on political theory and a brief introduction to some contemporary political ideas; 3. The major types of governmental organization: an introduction to comparative government and the application of concepts and techniques of political analysis to modern political systems; 4. Analysis of contemporary tensions and conflicts on the international scene. Completion of this course with a satisfactory grade is a prerequisite for admission to candidacy for the degree of Master of Arts in government. See regulations above.

Seabury 17 – Mr. Neaverson.

**GOVERNMENT 512 (1). Metropolitan Government – Tuesday.** Comparative studies of metropolitan government with an emphasis upon the relationship of the city to the state, power structure, political decision-making, the Council Manager form, and the tactics of interest groups.

Seabury 19 – Mr. McKee.

**GOVERNMENT 515. American Foreign Policy – Thursday.** A study of principles and factors involved in the formation of United States foreign policy, their application to recent selected foreign policy objectives, and an analysis of results.

Seabury 17 – Mr. Cobbledick.

**GOVERNMENT 522 (1). International Law – Wednesday.** The nature and sources of the law of nations; jurisdiction of states over territories and persons; questions of recognition; the law of treaties; the peaceful settlement of disputes. Recent trends in the development of a system of international law.

Seabury 46 – Mr. Gastmann.

**GOVERNMENT 621. Independent Study –** Individual research on a selected topic under the guidance of a department member. Permission granted to specially qualified candidates only. Not a substitute for the thesis course. May be taken once only.

Mr. Stedman and Staff.

**GOVERNMENT 651-652. Thesis –** Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.

Mr. Stedman and Staff.

### ***Trinity Term – January to May***

**GOVERNMENT 504. American Political Thought – Monday.** The main currents of American political thought from the Colonial Period to the present time. Reading is mostly from original sources.

Seabury 46 – Mr. Stedman.

**GOVERNMENT 580. Government and Politics of Asia – Wednesday.** An examination of the political institutions and problems of the principal countries of Asia, with

particular emphasis on contemporary domestic and foreign policies of China, Japan, India, Pakistan, and Indonesia. Special attention will be paid to current problems as they develop, and to topics of particular interest to the members of the class.

Seabury 46 – Mr. Meyer.

**GOVERNMENT 621 (2). Independent Study –** Individual research on a selected topic under the guidance of a department

member. Permission granted to specially qualified candidates only. Not a substitute for the thesis course. May be taken once only.

Mr. Stedman and Staff.

GOVERNMENT 651-652. Thesis - Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.

Mr. Stedman and Staff.

## HISTORY

*Chairman:* PROFESSOR GEORGE B. COOPER

*Graduate Adviser:* PROFESSOR NORTON DOWNS

The Master's degree with a major in history is designed to follow an undergraduate concentration in history. Undergraduate preparation should include survey courses in ancient, European and American history. Candidates must complete at the graduate level a minimum of ten half-year courses, at least eight of which must be in history, including History 651-652: *Thesis*. Students with extensive preparation in history may be permitted by their adviser to elect two half-year courses in another department. A reading knowledge of one foreign language is required. The thesis is the final project of all candidates.

### *Summer Program in History*

Courses in history are available both during the Summer Term and the regular academic year. Candidates may complete their course requirements (exclusive of the Thesis) toward the Master's degree in a minimum of two summers. A selection of history courses representing the following periods and areas will be available each summer: ancient history, Medieval history, European history, and American history.

### *Courses in the History Program*

- 505. Greece, 594 to 338 B.C.
- 506. Greece, 338 to 200 B.C.
- 507. The Roman Republic
- 508. The Roman Empire
- 511. The Middle Ages
- 512. The Byzantine Empire and Islam
- 515. Renaissance and Reformation
- 517. Europe 1760-1870
- 518. Expansion of Europe
- 521, 522. European Diplomatic History
- 525, 526. England
- 527. Twentieth Century Britain
- 531, 532. France
- 535, 536. Germany
- 537. Studies in 19th and 20th Century European Intellectual History

- 538. Italy
- 541, 542. Russia
- 550. New England
- 552. United States: The Formative Years
- 553. American Sectionalism and the Civil War
- 561, 562. United States as a World Power
- 563. United States: Reconstruction to 1910
- 564. America in the Twentieth Century
- 571. Latin America
- 577. Modern Canada
- 580. Far East
- 590, 591. Africa
- 601, 602. Seminars: Various topics
- 651 - 652. Thesis



### ***Christmas Term – September to December***

**HISTORY 505.** Greece 594 B.C. to 338 B.C. – *Monday*. A study of the political, economic, and social development of Greece from Solon to the loss of Greek independence after Chaeronea, with especial emphasis on the growth of democracy at Athens.

Seabury 34 – Mr. Davis.

**HISTORY 542 (1).** Modern Russia – *Thursday*. Studies in the modernization of Russia since 1890, concentrating on the development of political institutions and mass culture in light of underlying problems of economic development. The first half of the course will cover the demise of the autocracy and the Revolution of 1917; the second half will deal with the evolution of Soviet society to the fall of Khrushchev.

Seabury 4 – Mr. Netting.

**\*HISTORY 550 (1).** History of New England – *Tuesday*. The concept of regionalism;

political, intellectual, and social development during the colonial and national periods; industrialization, immigration; cultural conflicts and adjustments.

Seabury 4 – Mr. Weaver.

**\*HISTORY 601.** Seminar: The 12th Century – *Wednesday*. Each student will select for report a topic on some aspect of the 12th Century. Particular attention will be paid to bibliography of the period. Prerequisite: a course in the Middle Ages or permission of the instructor.

Library Seminar Room 2 – Mr. Downs.

**HISTORY 651–652.** Thesis – Six semester hours. Investigation and essay on an original research topic. Registration for this course must be accompanied by written permission from the Chairman of the Department.

Mr. Cooper and Staff.

### ***Trinity Term – January to May***

**\*HISTORY 523 (2).** England in the Tudor-Stuart Period. – *Tuesday*. British history from 1485 to 1715. Topics will include: the establishment of the Tudor dynasty, the Tudor revolution in Church and State, the Elizabethan settlement, England and Europe in the sixteenth century, the Civil War, Restoration politics and diplomacy, and the reign of Queen Anne.

Seabury 4 – Mr. Painter.

**\*HISTORY 591 (2).** Africa in the Nineteenth and Twentieth Centuries – *Monday*. Topical studies of African society during

the period of colonization, decolonization, and independence.

Seabury 4 – Mr. Steele.

**\*HISTORY 602.** Seminar: The 12th Century – *Wednesday*. See description of History 601. History 601 is not a prerequisite.

Library Seminar Room 2 – Mr. Downs.

**HISTORY 602A.** Seminar: American Historiography – *Thursday*. Special topics in the literature of American history, method and techniques of research.

Library Seminar Room 1 – Mr. Weaver.

## 30 / Courses of Instruction

**HISTORY 651-652. Thesis.** Six semester hours. Investigation and report of an original research topic. Registration for this course

must be accompanied by written permission of the Chairman of the Department.  
Mr. Cooper and Staff.

## ITALIAN

The courses in Italian literature in translation are designed particularly for students of history and of English literature. They are made available as a part of the activity of the Cesare Barbieri Center of Italian Studies.

### *Italian Courses Available in Other Years or in Summer Term*

551. Italian Renaissance Literature  
553 and 554. Dante - *The Divine Comedy*

560. The Contemporary Italian Novel

## LATIN LITERATURE AND CLASSICAL CIVILIZATION

*Chairman and Graduate Adviser:*

PROFESSOR JAMES A. NOTOPOULOS

The program leading to the Master of Arts degree in Latin literature and classical civilization is especially designed for secondary school teachers of Latin. However, any person who is qualified and interested in doing advanced study in Latin and classical civilization would find the program appropriate.

To be eligible as a candidate in this program an applicant must meet the general requirements for acceptance as a candidate for the Master's degree and show evidence of possessing sufficient competency in Latin to undertake study of the subject at the graduate level.

A candidate for the Master of Arts degree must complete a total of ten half-year courses (30 semester hours). A minimum of five half-year courses involving analytical and interpretive reading of Latin authors in the original must be included in a candidate's program of study. These courses are to be selected from the curriculum unit entitled *Studies in Latin Literature*.

In addition, all degree candidates are required to complete successfully Latin 601-602: *History of Latin Literature*. This six semester hour course should be taken at the end of a student's program of study.



The balance of a candidate's program, three half-year courses, may include additional study in Latin literature, Greek, Greek and Roman history, classical civilization, or linguistics.

Each candidate is required to pass a Comprehensive Examination. Under special circumstances and with permission of the Department Chairman, particularly well-qualified students will be permitted to substitute a thesis for the Comprehensive Examination. All candidates, however, must pass the sight translation section of the examination.

The Comprehensive Examination will be administered once each year in mid-August. Candidates planning to take the examination must notify the Associate Dean of the College in writing two weeks prior to the date of the test. Each student should include in his letter the two special authors he has selected for the second portion of the examination.

It is recommended that candidates plan not to enroll in courses during the session of the Summer Term in which the Comprehensive Examination is to be taken. They will, however, be permitted to take one half-year course at this time – with permission of the Department Chairman.

The courses in Latin, and classical civilization are offered in the Summer Term only. However, candidates may take courses in Greek and Roman history and linguistics in the Christmas or Trinity Terms whenever they are available. In subsequent summers the courses available each year will probably include the following areas:

1. Advanced Placement Latin V taught by a college instructor and a secondary school teacher. Open for observation by Latin teachers.
2. Greek
3. Courses in history and classical civilization
4. A wide selection of courses in Latin literature

***Courses in the Classics Program***

***Studies in Latin Literature***

- 501. Plautus and Terence
- 502. Catullus and Horace
- 503. Cicero
- 504. Livy
- 505. Vergil: the *Aeneid*, Books I–VI
- 506. Vergil: the *Aeneid*, Books VII–XII
- 507. Vergil: *Eclogues* and *Georgics*
- 508. Caesar and Sallust

- 509. Lucretius
- 510. The Roman Love Elegy
- 511. Roman Satire
- 512. Ovid
- 513. Tacitus
- 514. Medieval Latin
- 521, 522. Special Readings

## 32 / Courses of Instruction

### *Required Seminar*

601-602. History of Latin Literature

### *Greek*

101-102. Elementary Greek

201. Greek Prose

202. Homer

301, 302. Advanced Readings

### *Classical Civilization*

501. Greek Archaeology

502. Roman Archaeology

503. Special Topics

## MATHEMATICS

### *Chairman and Graduate Adviser:*

PROFESSOR WALTER J. KLIMCZAK

The Department of Mathematics offers a graduate program in mathematics which leads to the degree of Master of Science. It is designed for those who wish to supplement their training in mathematics and broaden their mathematical background.

The degree of Master of Science in mathematics is conferred upon students who have received a Bachelor's degree with an undergraduate concentration in mathematics and have successfully completed ten graduate half-year courses in mathematics, or eight in mathematics and two in physics. The mathematics courses shall include either Mathematics 501 and 502 (*Introduction to Analysis I, II*) or Mathematics 503 and 504 (*Theory of Functions of a Real Variable I, II*), and three half-year courses from the following six half-year courses: Mathematics 507, 508 (*Theory of Functions of a Complex Variable, I, II*), Mathematics 517 (*Topology*), Mathematics 518 (*Introduction to Algebraic Topology*), Mathematics 519 (*Modern Algebra*), Mathematics 520 (*Linear Algebra*).

Students who have not taken a course in advanced calculus will normally be required to take Mathematics 500, which is recommended for students in mathematics.

Candidates should note that they will not receive credit toward the Master of Science degree in mathematics for Mathematics 500 or 500A or 500B. A thesis is not required.

Before electing either Mathematics 501 or Mathematics 503, students must request the permission of the Graduate Adviser, preferably at the Graduate Advisers' Pre-registration Session on the evening of September 13.



### *Courses in the Mathematics Program*

- |  |   |
|--|---|
| 500. Advanced Calculus                                 | 514. Mathematical Logic                             |
| 500A. Advanced Calculus I                              | 517. Topology                                       |
| 500B. Advanced Calculus II                             | 518. Introduction to Algebraic Topology             |
| 501, 502. Introduction to Analysis                     | 519. Modern Algebra                                 |
| 503, 504. Theory of Functions of a<br>Real Variable    | 520. Linear Algebra                                 |
| 505. Theory of Probability                             | 521. Vector Analysis                                |
| 506. Mathematical Statistics                           | 522. Vector and Tensor Analysis                     |
| 507, 508. Theory of Functions of a<br>Complex Variable | 523. Foundations of Mathematics                     |
| 510. Introduction to Numerical Analysis                | 525, 526. Topics from Analysis                      |
| 511, 512. Advanced Numerical Analysis                  | 601. Introduction to Functional Analysis            |
|  | 603. Functional Analysis and Applied<br>Mathematics |

### *Christmas Term – September to December*

**MATHEMATICS 500 (1).** Advanced Calculus – *Monday and Wednesday, 7:00–8:15.* The purpose of this course is to provide a sound background necessary for graduate study in mathematics. (Compare with Mathematics 500A.) The emphasis is on the understanding of the basic concepts of the calculus. Among the topics considered are the basis of the real number system, limits, continuity, differentiation, integration, and infinite series. Prerequisite: differential and integral calculus, or permission of the instructor. This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics.

McCook 309 – Mr. Sormani.

gramming. Prerequisite: differential and integral calculus or permission of the instructor. This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics.

McCook 305 – Mr. Bennett.

**MATHEMATICS 501.** Introduction to Analysis I – *Monday and Wednesday, 7:00–8:15.* Sets and functions, sequences and series of real numbers, limits and metric spaces, complete and compact metric spaces. Prerequisite: Permission of Graduate Adviser.

McCook 303 – Mr. Klimczak.

**MATHEMATICS 500A (1).** Advanced Calculus – *Tuesday and Thursday, 7:00–8:15.* This course is designed primarily for students in the physical sciences. Its purpose is to present topics of mathematics which are of common importance in various fields of applications. Among those included are infinite series, power series, solutions of differential equations, introduction to Laplace transform. Fourier series and dynamic pro-

**\*MATHEMATICS 503.** Theory of Functions of a Real Variable I – *Monday and Wednesday, 7:00–8:15.* Real numbers, metric spaces, the algebra of sets, outer measure, measurable functions, the Lebesgue integral, convergence theorems, the Radon-Nikodym theorem, the Lebesgue decomposition. Prerequisite: Permission of Graduate Adviser.

McCook 307 – Mr. Boyer.

### 34 / Courses of Instruction

**MATHEMATICS 507. Theory of Functions of a Complex Variable I – Tuesday and Thursday, 7:00–8:15.** A rigorous treatment of the theory of functions of a single variable. The algebra of complex numbers, analytic functions, complex integration, Cauchy integral theorem and formulas, power series. Prerequisite: Mathematics 504 or its equivalent.

McCook 307 – Mr. Ahlberg.

**\*MATHEMATICS 519. Modern Algebra – Tuesday and Thursday, 7:00–8:15.** Topics selected from the following: Groups: subgroups and normal subgroups, factor groups, the homomorphism theorems, permutation groups and Cayley's theorem, Jordan-Hölder theorem and chain conditions, Sylow the-

orems. Rings: integral domains, principal ideal rings, division rings, prime factorization. Fields: finite fields, polynomial rings, algebraic extensions, splitting fields. Prerequisite: Mathematics 500 or its equivalent.

McCook 309 – Mr. Mattson.

**\*MATHEMATICS 523. Foundations of Mathematics – Monday and Wednesday, 7:00–8:15.** A critical analysis of some of the fundamental concepts of mathematics. Mathematical induction. Peano's postulates for the natural numbers. The Frege-Russell definition of number. Construction of the system of complex numbers. Transfinite arithmetic philosophies of mathematics. Prerequisite: Mathematics 500 or its equivalent.

McCook 305 – Mr. Poliferno.

### Trinity Term – January to May

**MATHEMATICS 500B. Advanced Calculus II – Tuesday and Thursday, 7:00–8:15.** This course is a continuation of Mathematics 500A, but can be taken independently of Mathematics 500A. Among the topics considered are vector analysis, higher dimensional calculus, solutions of partial differential equations, introduction to analytic functions of a complex variable, Cauchy integral theorem and formulas. Prerequisite: differential and integral calculus or permission of the instructor. This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics.

McCook 305 – Mr. Bennett.

**\*MATHEMATICS 502. Introduction to Analysis II – Monday and Wednesday, 7:00–8:15.** The Riemann integral, the elementary functions, Taylor series, sequences and series of functions, theory of integration. Prerequisite: Mathematics 501.

McCook 303 – Mr. Klimczak.

**\*MATHEMATICS 504. Theory of Functions of a Real Variable II – Monday and Wednesday, 7:00–8:15.** Product measures, Fubini's theorem,  $L_p$ -spaces, Banach and Hilbert spaces, topics selected from the following: ergodic theory, differentiation theory, probability theory, the Daniell approach to integration. Prerequisite: Mathematics 503.

McCook 307 – Mr. Boyer.

**MATHEMATICS 508. Theory of Functions of a Complex Variable II – Tuesday and Thursday, 7:00–8:15.** The expansion of analytic functions in series, poles, essential singularities, contour integration, the calculus of residues, analytic continuation, conformal mapping, entire functions. Prerequisite: Mathematics 507.

McCook 307 – Mr. Ahlberg.

**\*MATHEMATICS 510. Introduction to Numerical Analysis – Monday and Wednesday, 7:00–8:15.** An introduction to the methods



of numerical analysis. Among the topics discussed will be round-off error, interpolation, solution of systems of nonlinear equations, numerical integration, matrix inversion, and the numerical solution of ordinary differential equations. The theoretical basis of these methods will be stressed. It is assumed that the student is familiar with matrix methods. Prerequisite: Mathematics 500 or its equivalent.

McCook 311 – Mr. Sormani.

\*MATHEMATICS 514. Mathematical Logic – *Monday and Wednesday, 7:00–8:15.* An introductory course in the fundamental concepts of mathematical logic, with emphasis on the formal properties of logical

systems. Prerequisite: Mathematics 500 or its equivalent.

McCook 305 – Mr. Poliferno.

\*MATHEMATICS 517 (2). *Topology – Monday and Wednesday, 7:00–8:15.* Sets and functions, metric spaces and metrizability, topological spaces and their maps, compactness, separation, connectedness. Prerequisite: Mathematics 500 or its equivalent.

McCook 225 – Mr. Whittlesey.

MATHEMATICS 520. *Introduction to Linear Algebra – Tuesday and Thursday, 7:00–8:15.* Vector spaces, finite- and infinite-dimensional. Linear transformations and their matrix representations. Prerequisite: Mathematics 500; Advanced Calculus.

McCook 309 – Mr. Mattson.

## MODERN LANGUAGES

*Chairman and Graduate Adviser:*

PROFESSOR GUSTAVE W. ANDRIAN

The program leading to the Master of Arts degree in French or in Spanish is designed to provide the candidate with a good knowledge of French or Spanish literature and literary analysis, an understanding of the culture and civilization of the nation concerned, and, only when necessary, improvement in the oral and written use of the language. Although designed especially for secondary school teachers or prospective teachers of French or Spanish, the program is appropriate for any person who is qualified and interested in doing advanced study.

To be eligible as a candidate for the Master of Arts degree in either French or Spanish, an applicant must meet the general requirements for acceptance as a candidate for the Master's degree and show evidence of possessing sufficient competence in French or in Spanish (usually the equivalent of a college major) to undertake study of the subject at the graduate level. All courses, with but few exceptions, are conducted in the language.

Programs of study in French and Spanish are planned on an individual basis but candidates are normally required to take a total of ten half-year courses (30

semester hours) and pass a comprehensive examination. Of the total of ten half-year courses, one must be in civilization and culture, one in applied linguistics, and one in advanced conversation and syntax. A literature course may be substituted for linguistics when similar work has previously been taken, and also for the language course for the candidate whose proficiency in the language is already very good. Students may elect, with permission of the Department Chairman, to substitute a thesis in lieu of two half-year courses in literature and the Comprehensive Examination.

Comprehensive examinations in French and Spanish literature are held about the first of October and of May. Each examination consists of a written section, approximately eight hours in length, and of a shorter oral test. Students planning to take the examination should notify the Associate Dean of the College and the adviser in writing no later than one month prior to the test date.

Although the program is designed primarily for summer study, the Department offers at least one course in French and one course in Spanish for graduate credit in each semester of the regular academic year. It is, therefore, possible to complete the requirements for the Master's degree in a minimum of one academic year and two summers.

### *Courses in the Modern Languages Program*

#### *French*

- |   |                                   |
|---|-----------------------------------|
| 501. Linguistics                            | 513, 514. Studies in Lyric Poetry |
| 502. Advanced Conversation and Syntax       | 515, 516. Studies in Drama        |
| 503, 504. Civilization and Culture          | 517, 518. Studies in Fiction      |
| 505. Masterpieces of French Literature      | 519. Proust and Gide              |
| 507, 508. Studies in French Classicism      | 520. Existentialism               |
| 509, 510. Studies in the Eighteenth Century | 521. Renaissance Prose            |
| 511. Studies in Romanticism                 | 522. Renaissance Poetry           |
| 512. Studies in Realism and Naturalism      | 523. Literary Criticism           |

#### *Spanish*

- |  |  |
|--|--|
| 501. Linguistics                             | 509, 510. Studies in the Nineteenth Century      |
| 502. Advanced Conversation and Syntax        | 511. The Generation of '98                       |
| 503, 504. Civilization and Culture           | 513, 514. Studies in the Twentieth Century       |
| 505. Masterpieces of Spanish Literature      | 515, 516. Studies in Spanish American Literature |
| 506. Cervantes                               |  |
| 507, 508. Studies in the <i>Siglo de Oro</i> |  |



### ***Christmas Term – September to December***

**FRENCH 515.** Theater of the Twentieth Century – *Wednesday*. An analysis of some of the most important literary and philosophical trends through the theatre of the absurd.

Seabury 19 – Mme. Ferrari.

**\*SPANISH 506.** Cervantes – *Wednesday*. This course will deal primarily with a concentrated study of *Don Quixote*. The literary, humanistic, and philosophical import of this work will be viewed against the social and literary background of the times. A study will also be made of some of Cervantes' other contributions, notably the *Novelas Ejemplares*.

McCook 213 – Mr. Andrian.

### ***Trinity Term – January to May***

**FRENCH 510.** Eighteenth-Century Literature – *Wednesday*. A study of the French Enlightenment as reflected in the major literary and philosophical works of Voltaire and Diderot among others.

Seabury 19 – Instructor to be announced.

**SPANISH 516.** The Spanish-American Novel – *Thursday*. A detailed study of a selected number of Spanish-American authors, including Azuela, Barrios, Gallegos, Lynch, and Fuentes. In addition to the works studied, attention will be devoted to sociopolitical aspects and problems of modern Spanish America.

McCook 303 – Mr. Kerson.

## **PHILOSOPHY**

**Chairman:** PROFESSOR BLANCHARD W. MEANS

**Graduate Adviser:** PROFESSOR HOWARD DELONG\*

Trinity's degree program in philosophy is planned, not necessarily as preparation for professional work in philosophy, but primarily to provide an opportunity for mature students to investigate the fundamental thinking of mankind. Previous undergraduate study of philosophy is not required. To qualify for the Master's degree the student must complete ten half-year courses, eight of which must be in philosophy, including Philosophy 651–652: *Thesis*. No specific course or sequence of courses is required, but candidates are encouraged to seek the counsel of the Department Chairman or Graduate Adviser in planning their program of study. Registration in courses from other departments which are to be applied toward the degree requirements in philosophy must be approved in advance by the Department.

\* Sabbatical leave, Christmas Term, 1967–68.

*Courses in the Philosophy Program*

- 501. Philosophy of Science
- 502. Advanced Logic
- 503. Philosophy of Religion
- 504. Philosophy of State
- 505. Philosophy of History
- 506. Philosophy of Art
- 507. History of Philosophy I
- 508. History of Philosophy II

- 509. Special Studies in Philosophy
- 510. Special Studies in Philosophy
- 511. Seminar – Various Topics
- 512. Seminar – Various Topics
- 651–2 Thesis

*Christmas Term – September to December*

**PHILOSOPHY 511.** Seminar: Plato – *Thursday*. An intensive study of the Platonic dialogues. Special attention will be given to the historical context in which they arose.

Library Seminar Room 2 – Mr. Hyland.

**PHILOSOPHY 651–652.** Thesis – Conference hours by appointment. Intensive inquiry into a special area of philosophy under the direction of a member of the Department. See *Degree Requirements*.

Mr. Means and Staff.

*Trinity Term – January to May*

**\*PHILOSOPHY 510.** Special Studies in Philosophy: Existentialism – *Wednesday*. An intensive study of selected existentialist philosophers including Kierkegaard, Nietzsche, Heidegger, and Sartre.

Seabury 4 – Mr. Hyland.

**PHILOSOPHY 512.** Seminar: Kant – *Monday*. Primarily a careful reading of *The Critique of Pure Reason* from both critical and historical points of view. Kant's other

writings will also be consulted to assess the relevance of his thought to more recent philosophy.

Library Seminar Room 2 – Mr. Brown.

**PHILOSOPHY 651–652.** Thesis – Conference hours by appointment. Intensive inquiry into a special area of philosophy under the direction of a member of the Department. See *Degree Requirements*.

Mr. Means and Staff.

**PHYSICS**

*Chairman and Graduate Adviser:*

PROFESSOR F. WOODBRIDGE CONSTANT

The program in physics leading to the Master of Science degree is designed for engineers, mathematicians, physicists in industry, and others who desire further training in mathematical physics and knowledge of recent developments in the atomic and sub-atomic fields.



The physics courses are planned to follow an undergraduate concentration in physics and mathematics. Although no one program of study is specifically required, degree candidates or students planning to become degree candidates are required to begin their course work with Physics 501: *Classical Mechanics*, unless they are excused by the qualifying examination. Ten half-year courses are required for the Master's degree; of these, four half-year courses may, with the approval of the student's adviser, be taken in mathematics. Recommended courses in mathematics include Mathematics 500A, if the student has not had such a course, real and complex variables, modern algebra and matrix theory, vector and tensor analysis. A thesis is not required. Students who apply for candidacy for the Master's degree in physics, except those offering an undergraduate major in physics with a minimum grade average of "B-," will be reviewed by the Graduate Committee only after they have completed one half-year course in physics at Trinity beyond Physics 500.

All students desiring to enroll in Physics 501 will be required to pass successfully a qualifying examination. This test will be administered on Tuesday evening, September 12, 1967, at 7:00 P.M. in Room 102, McCook Center. The examination will include general principles of physics and their mathematical formulation. Suggested references for review are: Sears and Zemansky, *University Physics*, and F. W. Constant, *Theoretical Physics*. Students who do not pass the qualifying examination will be required to complete Physics 500 and Mathematics 500A and/or 500B before taking Physics 501. Those who receive a grade of Distinction in this test will be exempted from taking Physics 501, 502. Students who are uncertain as to whether they have qualitatively satisfied the prerequisites of a course should discuss their academic preparation with members of the Physics Department, preferably at the Graduate Advisers Session.

#### *Courses in the Physics Program*

500. Fundamental Principles of Physics  
501, 502. Classical Mechanics  
503, 504. Electricity and Magnetism  
505. Mathematical Physics  
507. Electromagnetic Theory of Light

508. Statistical Mechanics  
511, 512. Modern Physics  
513, 514. Quantum Mechanics  
519, 520. Solid State Physics  
601, 602. Research

#### *Christmas Term – September to December*

**PHYSICS 501.** *Classical Mechanics – Tuesday and Thursday, 7:00–8:15.* The concepts of mass, force and energy, Lagrange's equations, and the central force problem.

Emphasis is placed on the fundamental hypotheses of the physical theory and their expression in various mathematical forms. Prerequisite: at least two courses in physics

and two in mathematics, including a course in mechanics. All students desiring to enroll in Physics 501 will be required to pass successfully a qualifying examination. This test will be administered on Tuesday evening September 12, 1967, at 7:00 p.m. in Room 102, McCook Center. The examination will include general principles of physics and their mathematical formulation. Suggested references for review are: Sears and Zeman-sky, *University Physics*, and F. W. Constant, *Theoretical Physics*. Students who do not pass the qualifying examination will be required to complete Physics 500 and Mathematics 500A and/or 500B before taking Physics 501. Those who receive a grade of Distinction in this test will be exempted from taking Physics 501, 502.

McCook 102 – Mr. McCune.

**\*PHYSICS 503.** Electricity and Magnetism – *Monday and Wednesday, 7:00–8:15.* Electrostatics, magnetostatics, time-varying electromagnetic fields and Maxwell's equations, plane electromagnetic waves, wave guides and resonant cavities, multipole radiation. Prerequisite: Physics 501, 502, or an equivalent course in mechanics.

McCook 102 – Mr. Lary.

### Trinity Term – January to May

**PHYSICS 500.** Fundamental Principles of Physics – *Monday and Wednesday, 7:00–8:15.* No credit. The course is designed to help prepare those who wish to take graduate courses in physics but who have not completed an undergraduate major in physics. The mathematical formulation of the fundamental principles of physics will be reviewed with special emphasis on mechanics and electro-magnetism. Familiarity with the calculus, differential equations and vector notation will be developed through the analysis and solution of theoretical problems.

McCook 309 – Mr. Carroll.

**\*PHYSICS 513.** Quantum Mechanics – *Tuesday and Thursday, 7:00–8:15.* An analytical study of quantum mechanics, first from the Schrodinger equation and later from the more general transformation theory. Applications will mostly be made to atomic systems. Topics will include steady states and energy levels, angular momentum, matrices, collision theory, approximation methods and interaction with electromagnetic fields. No previous knowledge of quantum mechanics is necessary, although a phenomenological knowledge of modern physics will be assumed. Prerequisite: Physics 501, 502 or equivalent.

McCook 106 – Mr. Sziklas.

**\*PHYSICS 519.** Solid State Physics I – *Monday and Wednesday, 5:00–6:15.* A general introductory course in the properties of solids. Topics include crystal structure, types of bonding, mechanical properties, thermal properties, dielectrics, free electron and band theories, and semiconductors. Prerequisites: Physics 501, 502 or an equivalent course in theoretical physics and at least one semester of atomic physics.

McCook 106 – Mr. Witt.

**\*PHYSICS 502.** Classical Mechanics – *Tuesday and Thursday, 7:00–8:15.* A continuation of Physics 501. Dynamics of rigid bodies, special relativity, Hamilton's equations, and small oscillations. Prerequisite: Physics 501.

McCook 102 – Mr. McCune.

**\*PHYSICS 504.** Electricity and Magnetism – *Monday and Wednesday, 7:00–8:15.* Special theory of relativity, relativistic-particle dynamics, collisions between charged particles, radiation from accelerated charges, mul-



tipole fields, radiative reaction, magnetohydrodynamics and plasmas.

**McCook 102 – Mr. Lary.**

**\*PHYSICS 514. Quantum Mechanics – Tuesday and Thursday, 7:00–8:15.** A continuation of Physics 513. Prerequisite: Physics 513.

**McCook 106 – Mr. Sziklas.**

**\*PHYSICS 520. Solid State Physics II – Monday and Wednesday, 5:00–6:15.** A continuation of Physics 519 with emphasis on the following topics: magnetic properties including resonance and masers; the Fermi surface in metals and methods for gauging it; superconductivity including the thermodynamics of superconductors; the London equations and introduction to the Bardeen-Cooper-Schrieffer theory. Prerequisites: Physics 519 or an equivalent introductory course in solid state physics.

**McCook 106 – Mr. Witt.**

# Masters Degrees

Conferred at the Commencement

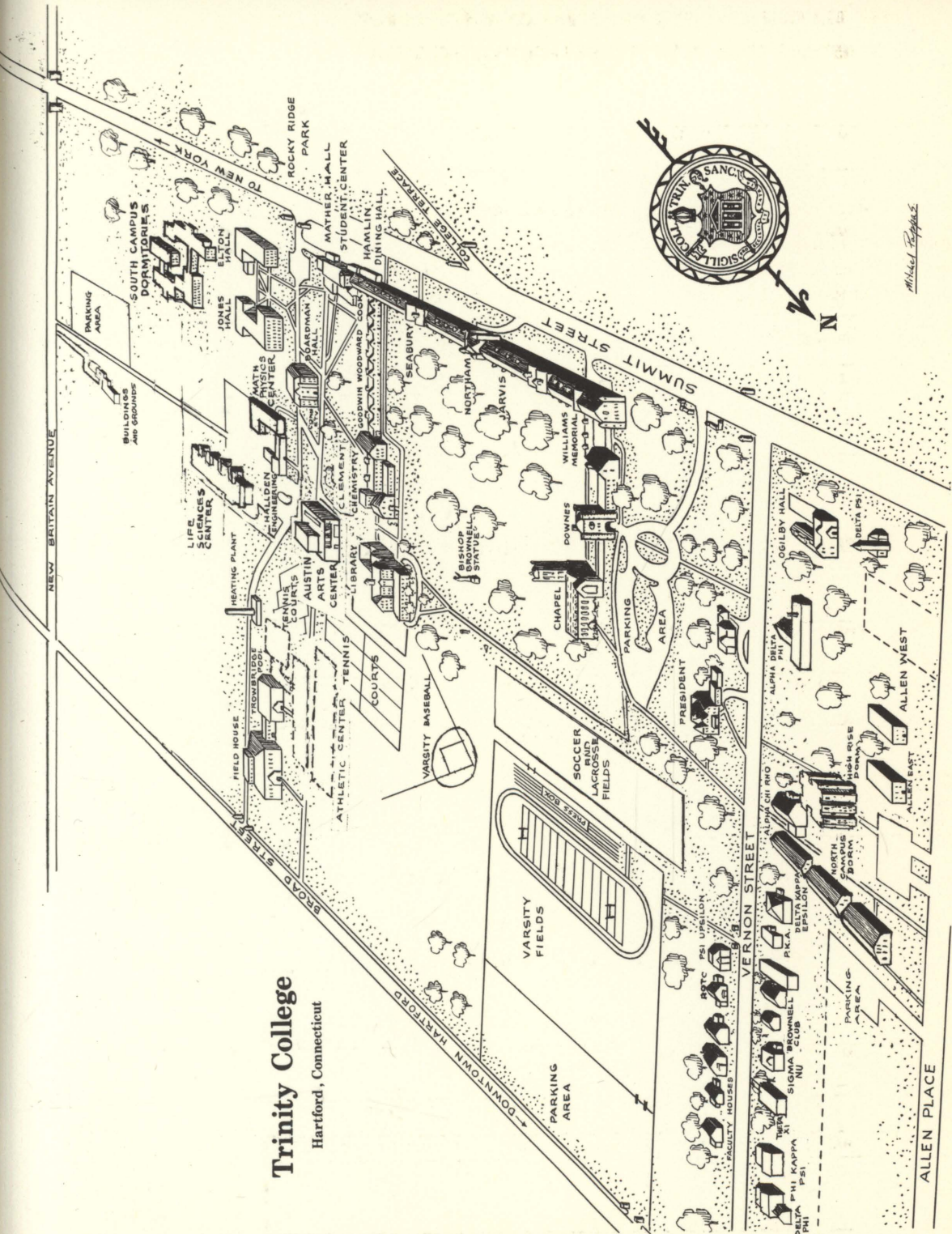
June 4, 1967

Alfred Austin Albert	B.A., 1955, Bowdoin College	M.A.
Gerald Anthony Baginski	B.M.Ed., 1961, University of Hartford	M.A.
Alice Fried Baker	B.S., 1964, Cornell University	M.A.
William Whitney Baker	B.A., 1950, Harvard University;	
	M.A., 1954, Columbia Teachers College	M.A.
Bessye Warren Bennett	B.A., 1958, Radcliffe College	M.A.
Eleanor Garrell Berger	B.A., 1964, Vassar College	M.A.
Nancy Roser Bestor	B.A., 1948, Mount Holyoke College	M.A.
Arthur William Biddle	B.S., 1961, University of Connecticut	M.A.
Frances Finesilver Blumenthal	B.A., 1962, University of Hartford	M.A.
Michel Herbert Bourquin	B.A., 1964, Florida State University	M.A.
Gertrude Bent Brady	B.A., 1962, Denison University	M.A.
James Edward Brady	B.S., 1963, Southern Connecticut State College	M.A.
Sandra Elizabeth Brenner	B.A., 1965, University of Connecticut	M.A.
Helen Yvonne Brigham	B.A., 1958, Radcliffe College	M.A.
Alice Jane Byer	B.A., 1962, Cornell University	M.A.
Gertrudis Dominguez Caminero	B.A., 1949, University of Havana	M.A.
Joyce Joan Marie Cecarelli	B.S., 1964, Southern Connecticut State College	M.A.
John Burgwin Childs	B.A., 1959, Yale University	M.A.
John Preston Churchill	B.A., 1961, Bowdoin College	M.A.
Virginia Mussler Clarke	B.S., 1955, Central Connecticut State College	M.A.
Arline Bishop Clements	B.S., 1962, Wheelock College	M.A.
Elizabeth Jones Collamore	B.A., 1964, University of Hartford	M.A.
Harold Lee Colvocoresses	B.S., 1936, University of Virginia;	
	M.Ed., 1963, University of Hartford	M.A.
Stephen Rutty Crampton	B.A., 1961, Middlebury College	M.A.
Harold Francis Donnelly, Jr.	B.S., 1961, Springfield College	M.A.
Regina Ann Driscoll	B.A., 1936, Pembroke College; B.S., 1940, Columbia	
	University; M.S.W., 1964, Smith College	M.A.
Elaine Louise Fiorentino	B.S., 1963, Bucknell University	M.A.
Mary Anne Fleetwood	B.A., 1961, Hood College	M.A.
Fauzy Naseeb Ghareeb	B.S., 1959, Lamar State College of Technology;	
	B.A., 1961, University of Miami	M.A.
Charles Cummings Gifford, Jr.	B.A., 1963, Northeastern University	M.A.
Robert Stephen Gioggia	B.S., 1965, New York University	M.S.
Peter Anthony Giorgio	B.A., 1963, Trinity College	M.A.
Arthur Watson Gregg	B.A., 1961, Trinity College	M.A.
Elenora Bayliff Markunas Heffner	B.A., 1963, Bucknell University	M.A.
William James Hilliard	B.A., 1958, Saint Bernard Seminary and College	M.A.
Gerard Helmut Hoffman	B.Sc., 1942, University of London	M.A.
Peta Jean Howard	B.A., 1964, Saint Joseph College	M.A.
Elaine Anderson Innes	B.A., 1956, American University	M.A.
Anna Margaret Kicin	B.S., 1961, Boston College	M.S.



Harriel Edna King	B.S., 1962, Boston University	M.A.
Fred Albert Kissner	B.S.M.E., 1965, New Haven College	M.S.
Rudolph Charles Krempf	Komenium, 1936, State Teachers College, Olomouc, Czechoslovakia	M.A.
William Francis LaPorte, Jr.	B.A., 1955, Trinity College	M.A.
Joseph David Lawrence	B.A., 1958, Trinity College	M.A.
Albert Cook Leiper	B.A., 1962, University of Connecticut	M.S.
Edilberto Augustin Marban	Ph.D., 1929, M.A., 1943, University of Havana	M.A.
Hilda de Abajo Marban	B.S., 1941, Ph.D., 1945, University of Havana	M.A.
Jorge Antonio Marban	M.S.S., 1960, LL.D., 1960, University of Havana	M.A.
André Jacques Rodolphe Marion	B.A., 1953, College of Ste. Marie	M.A.
Edward Barry McGurk	B.A., 1962, Boston University	M.A.
Patricia Frances McHugh	B.A., 1963, University of Connecticut	M.S.
Joel Hinchman McLean	B.A., 1947, Vassar College	M.A.
JoAnn Dorothea Mettling	B.A., 1965, Albertus Magnus College	M.A.
Dorothy Sarah Micloskey	B.S., 1963, Central Connecticut State College	M.A.
John Randall Miner, Jr.	B.S., 1957, Trinity College	M.S.
Raymond Joseph Moylan, Jr.	B.A., 1954, M.A., 1961, Trinity College	M.A.
Judith Ann Mozzer	B.A., 1960, Saint Joseph College	M.A.
Charles E. North	B.S., 1955, Central Connecticut State College	M.A.
George Charles Patterson	B.A., 1959, University of Maine	M.A.
Robert Edgar Persons, Jr.	B.S., 1963, Georgia Institute of Technology	M.S.
Fredda Pollans	B.A., 1964, University of Hartford	M.A.
Benjamin Franklin Pritchard	B.S., 1960, Columbia University	M.A.
Francis Joseph Quinn, Jr.	B.A., 1957, University of Connecticut	M.A.
Lois Margaret Bauer Remmer	B.A., 1939, Pembroke College	M.A.
Robert Morris Rodney, Jr.	B.A., 1961, Trinity College	M.A.
Edward Thomas Rogers	B.S., 1959, University of Connecticut	M.A.
John Michael Rozett	B.S., 1965, Trinity College	M.A.
Mary Klett Ryan	B.A., 1959, Saint Joseph College	M.A.
Susan Ann Saleski	B.A., 1965, College of Saint Elizabeth	M.A.
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